(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 20 October 2005 (20.10.2005)

PCT

(10) International Publication Number WO 2005/097718 A1

(51) International Patent Classification⁷: C07C 31/24

(21) International Application Number:

PCT/KR2005/000554

(22) International Filing Date: 28 February 2005 (28.02.2005)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data: 10-2004-0024704 10 April 2004 (10.04.2004) KR

(71) Applicant (for all designated States except US):

AMOREPACIFIC CORPORATION [KR/KR]; 181,
Hangang-ro 2ga, Yongsan-gu, Seoul 140-777 (KR).

(72) Inventors: and

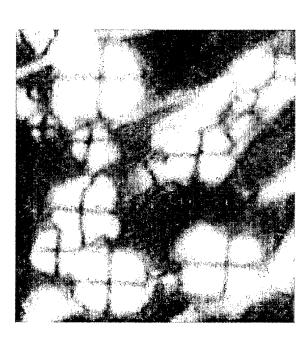
(75) Inventors/Applicants (for US only): YOU, Jae Won [KR/KR]; 4-802, Miseong Apartment, Sincheon-dong, Songpa-gu, Seoul 138-240 (KR). LEE, Chan Woo [KR/KR]; 305-303, Hanil Apartment, Hansol maeul, Jeongja-dong, Bundang-gu, Seongnam-si, Gyeonggi-do 463-915 (KR). KIM, Duck Hee [KR/KR]; 2-902, Family Apartment, Jamwon-dong, Seocho-gu, Seoul 137-030 (KR). KIM, Kil Joong [KR/KR]; 105-702, Hyundai

Hometown Apartment, Yehyeon maeul, Seocheon-ri, Giheung-eup, Yongin-si, Gyeonggi-do 449-906 (KR). NAM, Gae Won [KR/KR]; 301-1108, Sanggal Jugong Apartment 3rd Complex, Sanggal-ri, Giheung-eup, Yongin-si, Gyeonggi-do 449-905 (KR). LEE, Byoung Seok [KR/KR]; 101-1802, 243, Geumgok-dong, Gwonseon-gu, Suwon-si, Gyeonggi-do 441-841 (KR). CHANG, Ih Seop [KR/KR]; 102-1104, Dongbo Apartment, 703, Pungdeokcheon-ri, Suji-eup, Yongin-si, Gyeonggi-do 449-759 (KR).

- (74) Agent: YOON, Dong Yol; Yoon & Lee International Patent & Law Office, 9th Fl., Yosam Bldg., 648-23, Yoksam-dong, Gangnam-gu, Seoul 135-748 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

[Continued on next page]

(54) Title: PENTAERYTHRITOL DERIVATIVES AND A METHOD FOR PREPARATION THEREOF, AND LIQUID CRYSTAL BASE CONTAINING THE SAME



(57) Abstract: The present invention relates to pentaerythritol derivatives represented by the following formula 1, which improve moisture retaining ability of the stratum comeum when applied to the skin, and especially show high moisturizing ability even in dry conditions, to a preparation method thereof, and to a liquid crystal base containing the same. (Wherein R is the same or different, saturated or unsaturated, linear or branched alkyl groups of 1 to 24 carbon atoms having hydrogen or hydroxy group or not; m and n are the same or different integers of which m is 0 to 10 and n is 1 to 10).

WO 2005/097718 A1



(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— with international search report